

**PRELIMINARY ANNOUNCEMENT OF TWO  
MAJOR TRIPS TO BE OFFERED  
BY THE  
CALIFORNIA ACADEMY OF SCIENCES  
IN 1973**

**First:** to the West Coast of Baja California to visit some of the famous seal and bird islands as well as to the breeding grounds of the grey whale. March 14-21. Transportation by air to San Diego, then on board the "Qualifier 105". Space available for 30 people. Cost (double occupancy) approximately \$450.00. A \$50.00 deposit will be required.

**Second:** to the Galapagos Islands from July 31 to August 16, 1973. Departing from San Francisco on July 31, the group will spend several days in Ecuador and then will fly to Baltra Island in the Galapagos Archipelago where the group will embark on the "Lina A" from August 3 to 14 to visit the major islands. Space available for approximately 40 people (double occupancy). Approximate cost, \$1450.00. Deposit of \$150.00 will be required.

A pre-tour to La Paz and Bolivia from July 18 to July 31 will be available. Cost \$580.00.

Academy staff will accompany both trips.

**Reminder:** Space is still available for the Redwood National Park field trip November 23-27, 1972. Price of \$85.00 includes Thanksgiving dinner at the Eureka Inn, plus bus transportation, hotel reservations and box lunches.

For further information on all trips, call GULLIVER'S TRAVELS at 346-4400.

# SEPTEMBER

at the

CALIFORNIA ACADEMY OF SCIENCES

## SEPTEMBER MEETINGS

(for Members and Their Guests)

**DATES & TIMES:** Matinee, 2:30 p.m., Wednesday  
September 13

Evenings, 8:00 p.m., Wednesday  
and Thursday, September 13-14.

**PLACE:** May Treat Morrison Auditorium

**SPEAKERS:** Mr. and Mrs. Ralph Welles

**SUBJECT:** "DEATH VALLEY THE YEAR  
ROUND"

For several years, Mr. Welles was a Ranger-Naturalist with the National Park Service. Of those, three found the Welles spending the winter months in Death Valley. Then, scientific curiosity about how the desert bighorn and the small animals and birds fare during the torrid summers prompted them to remain during the hot months.

The film you will be seeing at these meetings has been distilled from 30,000 feet of motion picture film in color—all the magnificence and scenic grandeur of Death Valley plus glimpses of the back country which few people ever see in a land where the temperature has been known to reach 134° in the shade and where as little as one-tenth of an inch of rain has fallen in one year!

Among other things to be explored: Scotty's Castle . . . relics of 20-mule-team days . . . wildlife below sea level . . . records of primitive man . . . the beauty of desert flowers and desert birds . . . the bighorns coming down from the high mountains to drink at desert springs and a battle between two of them when it was 116° in the shade and there was no shade . . . and fish that live on the floor of Death Valley.

Mr. and Mrs. Welles are the authors of a National Park Service publication, "The Bighorn of Death Valley" which is available in most libraries and through the Superintendent of Documents, Washington, D.C.

Three presentations as indicated and your membership card is your admission. For the matinee performance, present it to the door attendant at the entrance to Cowell Hall only. You will be asked to show it once again at the auditorium entrance. For the evening meetings, ingress is at

both the main entrance, Cowell Hall, and the rear Planetarium entrance off Middle Drive.

## MORRISON PLANETARIUM

"THE REALM OF THE NEBULAE" continues in the Theatre of the Stars through September 10. Beginning September 14:

"YOU ASKED FOR IT!" Many people ask many questions about the science of astronomy that have puzzled them and in this sky show many will be answered in simple terms and dramatized by the use of the great star projector. This show will play through October 8.

Performances daily at two with evening shows, Wednesday through Sunday, at eight. Extra matinees on Saturdays, Sundays and holidays. Closed on Monday and Tuesday nights.

Admission: Anyone 18 and over, \$1.00. Anyone 17 and under: 50¢.

## SPECIAL EXHIBITS

"MAN AND NATURE (As interpreted by the Indians of North America)", in Lovell White Hall. Plan to spend some time in this exhibit—photographic enlargements (some of them never before on display), artifacts of all kinds, mounted animals, and the raw materials of nature—a glimpse of the Indians: "evolving a way of life . . . profoundly enriched by the laws of nature". Continues indefinitely.

"BAJA CALIFORNIA", specimens, artifacts and other material from our neighbor to the south. Hohfeld Gallery through September 18. Next: "THE FLORA OF SAN BRUNO MOUNTAIN".

"GALAPAGOS", a large exhibit devoted to the "enchanted isles" off the coast of Ecuador. Cowell Hall.

"NATURE ABSTRACTIONS", black-and-white enlargements by Staff Photographer Lloyd Ullberg. Lower Gallery, Cowell Hall.

*Note:* The entire Academy continues open until nine in the evenings through Labor Day September 4. After that we revert to regular wintertime hours—ten to five daily.

## NEWS and NOTES . . . . .

THE JUNIOR ACADEMY again proved the attractiveness of its summer program of classes and of the twenty different subjects offered. 95% were filled to capacity. Registration day saw some 500 youngsters arriving early in the morning to enroll in their choice of subjects. The queue stretched from the Cowell Hall entrance to almost "out-of-sight" down through the parking lot.

The diverse subjects were presented by members of the CAS staff and graduate students from Bay Area colleges and universities. The students in the summer program ranged from age nine to seventeen. It was interesting to note how many parents enrolled with their offspring for the course in astronomy.

WHY NOT PLAN AHEAD since tempus fugit and it is always later than one thinks? The springtime Docent Training Program is scheduled to begin on Wednesday January 10. The purpose of the program is to provide well-trained volunteer tour guides for certain exhibit and display areas.

There will be ten sessions of three hours each on Wednesday mornings and attendance at all sessions is required. The course will be taught by Academy staff and will be concerned in the main with North American Bird and Mammal Halls.

The class will be limited to 35. Academy membership is required and applicants must have an individual interview with representatives of the Docent Council. They must be willing to serve the Academy for two years after completion of the course, one-half day every other week. There is a fee of \$20.00 for the course. If you desire further information telephone the Docent Office, 221-5100, between the hours of nine and one Mondays through Fridays.

. . . and closer at hand are two courses in the science of astronomy offered by the staff of Morrison Planetarium which will begin on Tuesday September 12. They are:

CELESTIAL NAVIGATION, a 16-week course beginning September 12 and extending through January 9, 1973. This course will teach you how to fix a position on the high seas by using stars, planets, the sun and the moon, as well as the use of charts and plotting. Enrollment is \$40.00 plus approximately \$19 for required supplies. Instructors are Capt. David W. Todd, Jr., USN (Ret.) and Lt. Comdr. Frank Matthews, USN (Ret.). Registration for this course is limited to 100 students. After registration, the class will split and then be held on Monday and Tuesday evenings, 7:30-9:30 p.m.

ASTRONOMY FOR FUN AND FAMILY, a 12-week course held on Tuesdays beginning September 12, two-hour weekly evening sessions. A course for the beginner who is interested in just what's going on up there and how to see it—with or without a telescope. Tuition is \$25.00 and \$2.50 should suffice for supplies. Instruction is by Mr. Don Warren.



Assistant Planetarium Supervisor and the course is for the whole family.

You can pre-register now by calling the Planetarium office at 221-5100, extension 71. After both courses begin, one is allowed to still register at any of the first three meetings.

**R**EGRETFULLY, WE REPORT the death of Jessie L. Saunders on July 13. Miss Saunders was a tireless worker in the J. W. Mailliard Library and because of her generous efforts which dated back to 1965, she was appointed a Library Associate in February 1969. In her last years of service, she had created her own project, a compilation of hundreds of cards with detailed information about the service and activities of past officers and members of the Academy. The fine index was almost completed at the time of her death. We are sincerely saddened by her departure from our ranks.

**A**NATIONAL SCIENCE FOUNDATION grant in the amount of \$19,600 has been granted the Academy for continued support of the project entitled "The Flora of Chiapas" that is under the direction of Dr. Dennis E. Breedlove, Assistant Curator in the Department of Botany. The project expires in February 1974.

**MISCELLANEA:** The Annual Open House of the Academy is scheduled for Wednesday evening October 18, 7:30-10:30 p.m. at which time *all* research departments will be open for inspection as well as Steinhart Aquarium "backstage" . . . Art-minded Bay Area members are advised of the Crocodile Gallery, 1303 Columbus Avenue, San Francisco, which has on display and for sale paintings, prints, drawings and photographs, the work of staff and Academy-related artists. The gallery is open Thursday through Monday, 1:00-8:00 p.m. . . . MAN/SEA '72, a combination underwater film exposition and seminar on the sea and its bounteous wonders, will be held on Friday and Saturday September 22-23 in San Francisco's Masonic Auditorium. Professionals and experts will share their experiences and out-of-the-ordinary films will be screened. For tickets (all events a total of \$15) or more information write MAN/SEA '72, 680 Beach Street, Suite 340, San Francisco, CA 94109 . . . The San Francisco Aquarium Society will present its 1972 Annual Fish Show, September 8-10, in North American Hall daily, 10-5. Two hundred individual entries will be on display. No admission fee other than that to the Academy in general . . . The American Mining Congress will hold its 1972 Convention at the Hilton Hotel, San Francisco, September 18-22,

with registration on the 17th. On display will be a colorful exhibit of mineral specimens from the Academy collections.

## Meet The Staff . . .

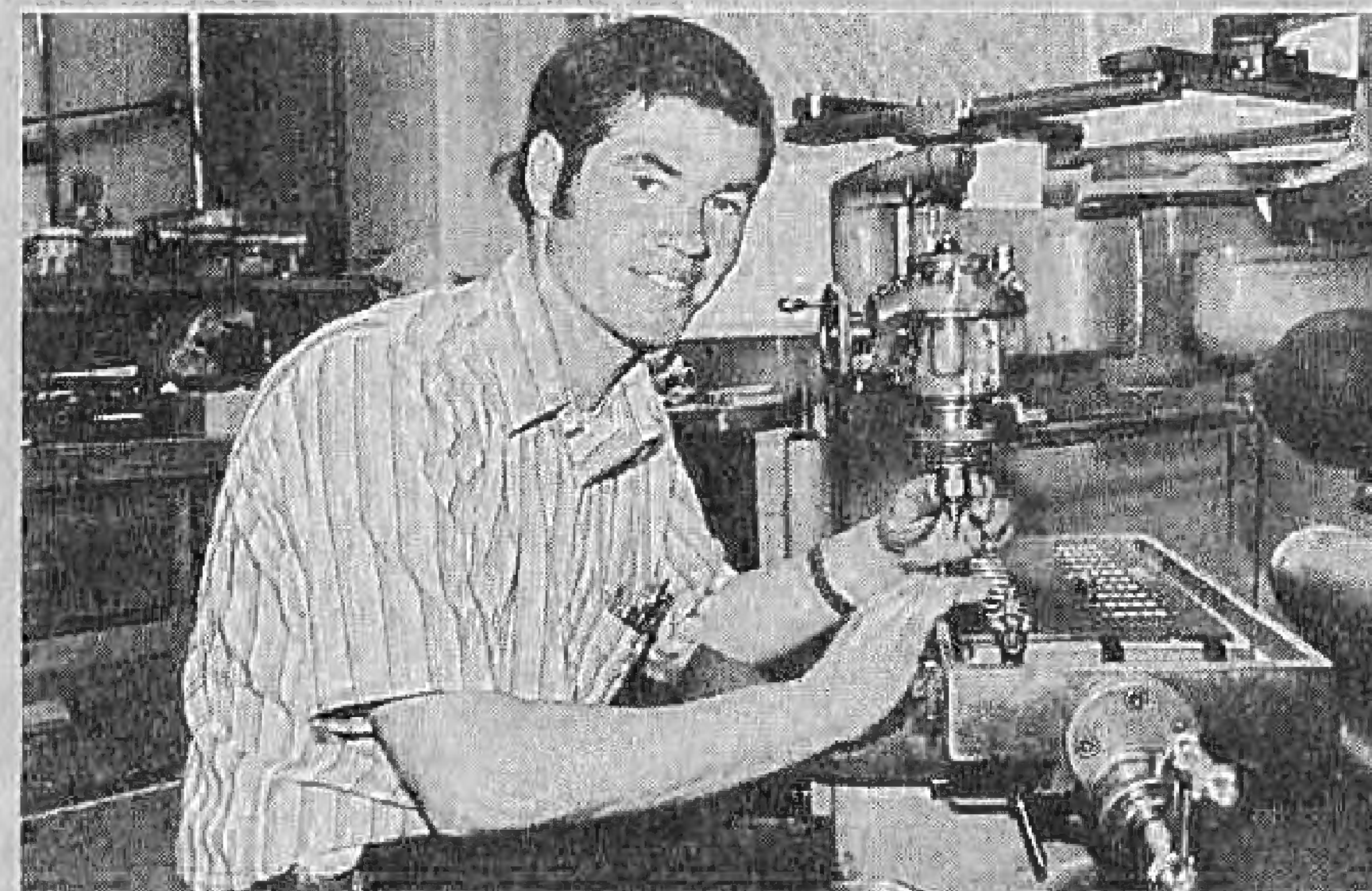


Photo by Lloyd Ullberg

**FRANK A. DEOME**, Technician-machinist in the Academy's Instrument Shop, decided about the age of twelve that machines of all kinds, their function and maintenance, were to be his particular province and professionally he has centered his activities in and around them since.

Frank was born in Berkeley and educated there partially. His parents, both of whom were involved in scientific pursuits, offered no resistance when he left high school to register for courses in automotive mechanics at Contra Costa Junior College and for specific courses of training with General Motors Corporation. As happens to most young men, the military managed to alter some well-laid plans and he was in the United States Coast Guard Reserve from 1964 to 1970. One assignment lasting three years was as a Coastal Foreman. Later, he was an instructor in the Engineman curriculum which put him again somewhat in company with his first interest, the aforementioned machines.

After discharge, he had varied employment with several automotive concerns and at one time owned and operated his own machine shop. Then, a casual acquaintanceship with Steven Craig, the CAS Shop Superintendent, led to temporary employment and eventually becoming a member of the regular Academy staff. Frank is the Academy locksmith, sometime electrician, sometime machine worker, and knows and can operate the wide variety of machine tools in the Instrument Shop. He has finally (for the most part) solved the intricacies of a machine which was the invention of the late G. Dallas Hanna, the purpose of which was to give an aluminum coat-

ing to certain optical surfaces. That particular machine is the only one of its kind around.

Frank's life has been centered about his CAS work and completing courses at Santa Rosa Junior College toward an Associate of Arts degree. Currently, he and his wife Patricia are involved in the completion of a house of their own design on Sonoma Mt. near Glen Ellen. This they will share with their daughter Theresa and a brand new baby, Kristy.

## NEW MEMBERS OF THE ACADEMY

### Regular Members

Mr. William H. Barry, Jr.	Miss Marjorie Markillie
Mr. Rod Chu	Mrs. H. B. Miller
Mr. Antonio Cordova	Mr. Dan H. McDonald
Mr. F. H. Clayson	Mrs. Ann Pool McNab
Mr. Robert C. Ferrel	Miss Anne M. McCorry
Mr. Michael P. Ferro, Jr.	Mrs. Dorothy B. Orr
Mr. Paul Gonzales	Mr. Richard J. O'Sullivan
Mr. Jay Hamner	Miss Susan J. Quimby
Mr. Robert L. Hunnicutt	Dr. Irwin Schatz
Mrs. Melinda Ivey	Mr. Albert M. Schmidt
Mr. Treve Johnson	Mrs. Dorothy W. Stone
Mr. Fred Lindenmayer	Mr. & Mrs. Walter F. Sundman
Mr. Irving A. Links	Mrs. Aagot Tenden
Miss Viola G. Hutton	Mr. Richard K. Van Aken
	Dr. Morton S. Weiss

### Family Members

Dr. M. F. Allende	Mr. C.E. Kerr & Family
Mr. & Mrs. Landes H. Bell	Mr. Harry L. Kuchins, Jr.
Mr. Arthur F. Benson	Mr. & Mrs. Marcel A. Largent
Mr. & Mrs. Igor Robert Blake	Mr. & Mrs. David Laws
Dr. Michael Bogner	Mr. L. T. Loberg
Mr. & Mrs. Roger N. Clemmons	Mr. & Mrs. Frank Lowe
Mr. Bryon P. Davies	Mr. Gilbert Murphy
Mr. & Mrs. William R. Donovan	Mr. & Mrs. David T. Nakagawa
Dr. & Mrs. R. W. Hoellwarth	Dr. & Mrs. Frederic H. Nichols
Mr. & Mrs. Leland S. Bright, III	Mr. & Mrs. John T. Norgaard
Mr. David G. Broadbear	Mr. & Mrs. Curt Owen
Mr. & Mrs. Anthony P. Brown	Dr. Owen C. Peck
Mr. Robert R. Buell	Mr. James B. Potin
Mrs. Janet R. Christian	Mrs. Winifred Reimann
Mr. & Mrs. William A. DeYoung	Mr. Ronald F. Reinisch
Mr. & Mrs. Lawrence Draper	Mr. Samuel G. Richter
Mr. & Mrs. Vern Edwardson	Dr. John A. T. Ross
Mr. & Mrs. Philip T. Farnsworth	Mr. Melvin B. Shaffer
Mr. Arthur E. Gimmy	Mr. & Mrs. Hilton
Dr. Jack C. Hoey	Stemwedel, Jr.
Mr. & Mrs. William W. Hoey	Mrs. Norma Todd
Mr. & Mrs. Edward D. Hudson, IV	Mrs. Pamela Truchan
Dr. Carl J. Johnson	Mr. Jules Chas. Waters
	Mr. & Mrs. Richard Wilson

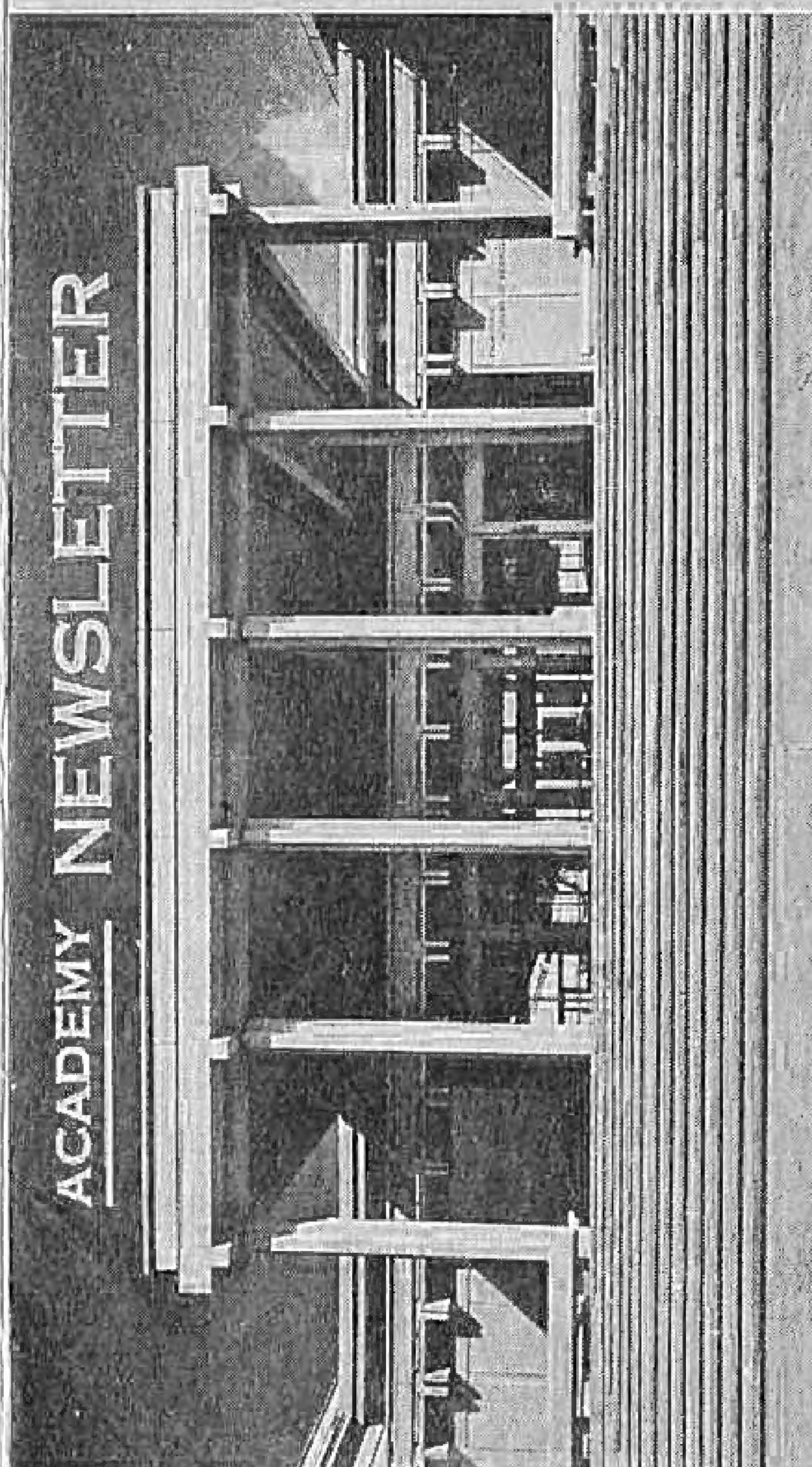
### Contributing Members

Mrs. Josiah Knowles	Mr. Charles Stearns
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